H530VI (TFT-LCD) PROJECT

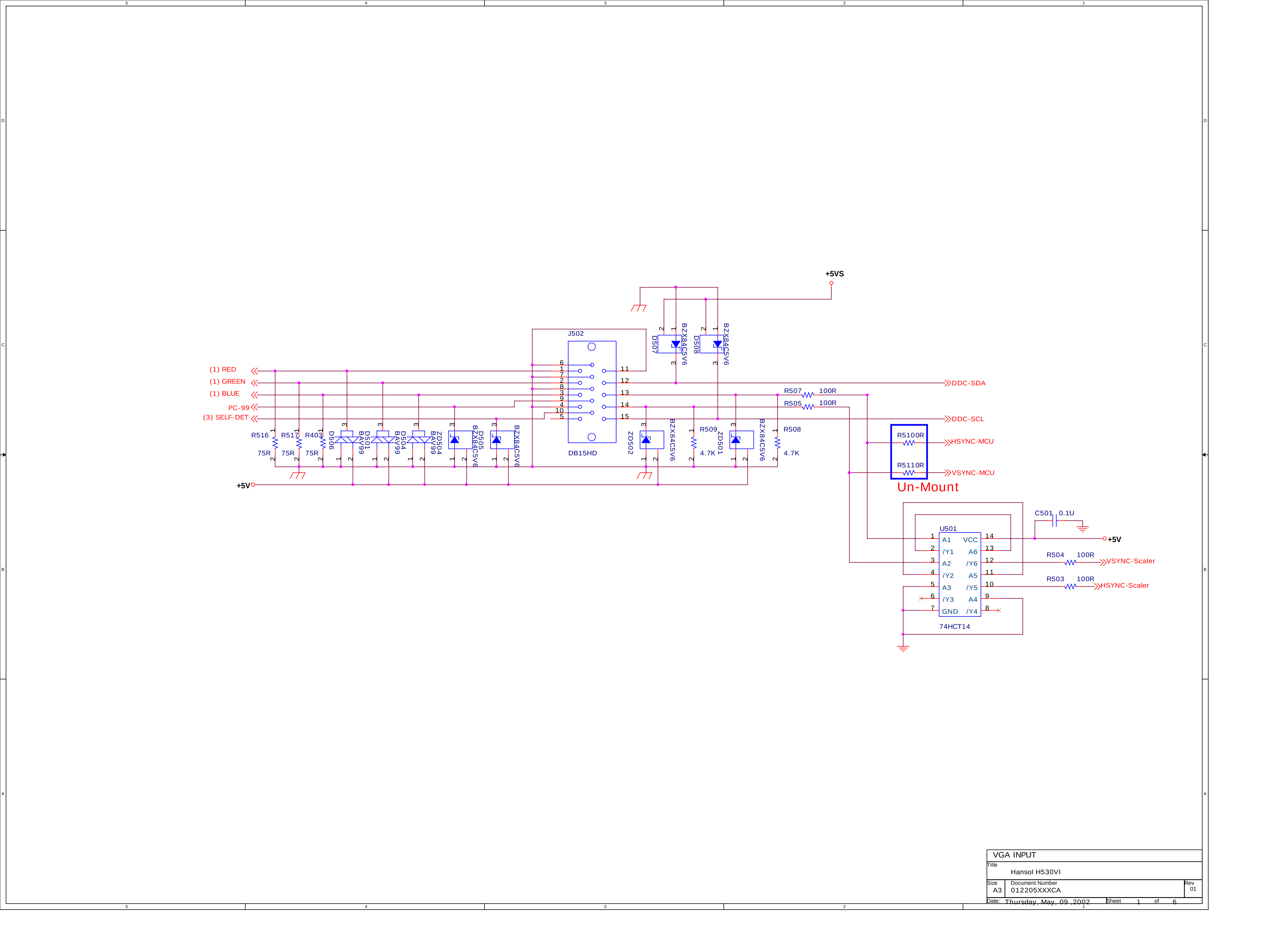
Scaler : MSCOT V (ADC 포함)
MICOM : Novatek, NT68F63L

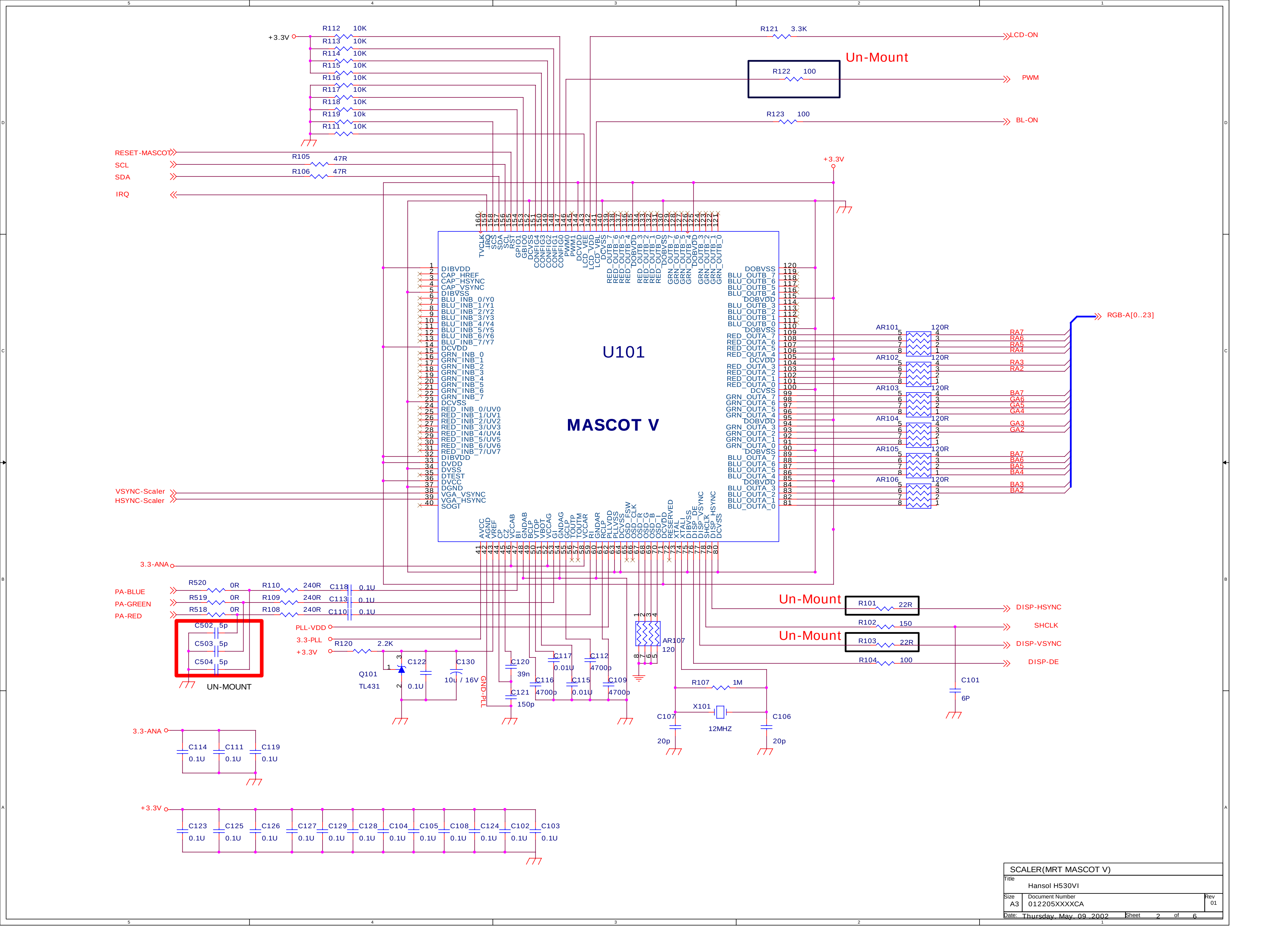
RESOULUTION : 1024 X 768 (MAX)
REFRESH RATE : 75Hz (MAX)
DOT CLK : 100MHz (MAX)
REVISION : 01 (TTL TYPE)

REV.	CONTENT	LOCATION	DATE

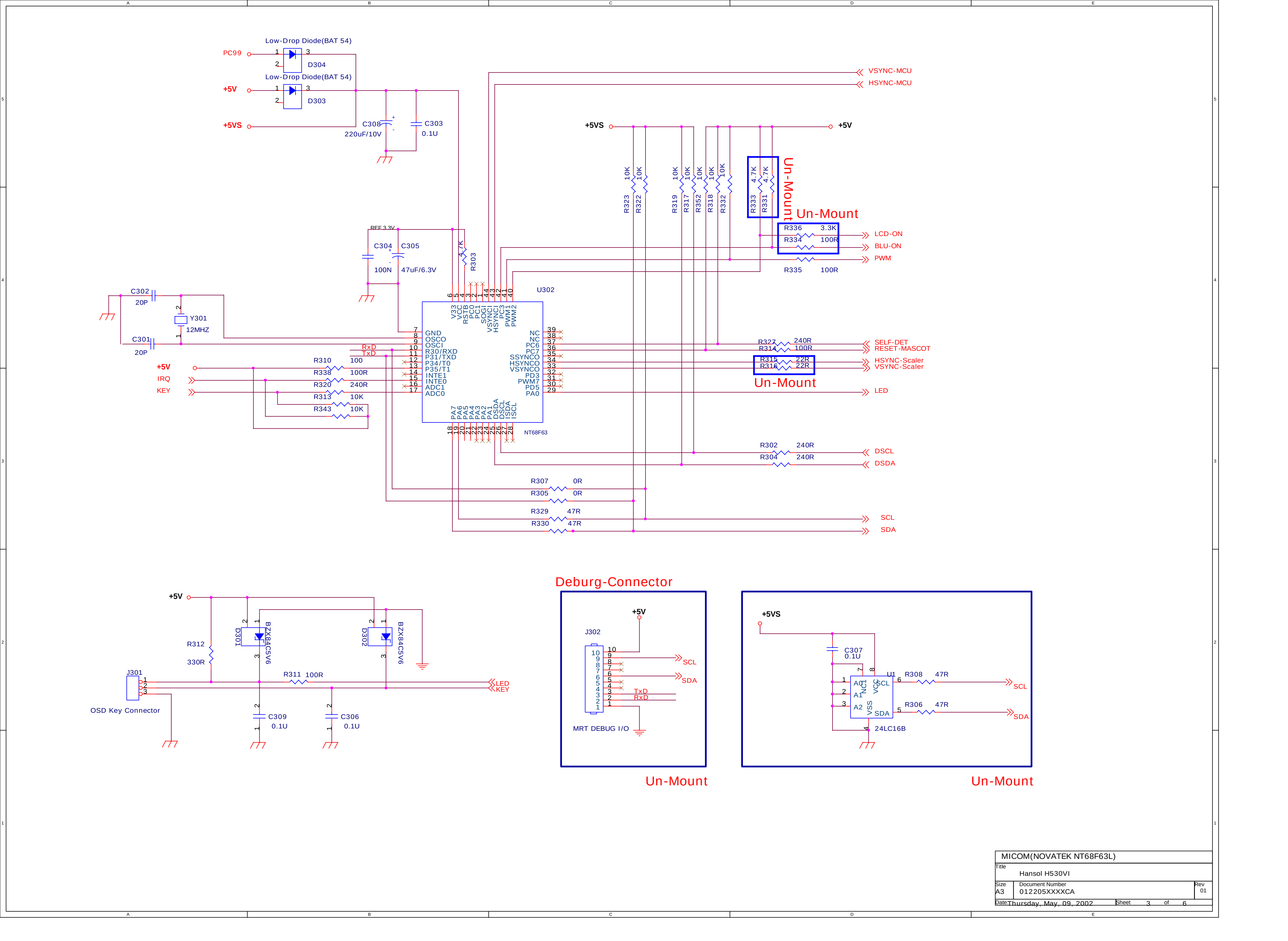
DRAWN	S.H.CHOI
CHECKED	S.H.PARK
APPROVAL	S.H.CHUNG

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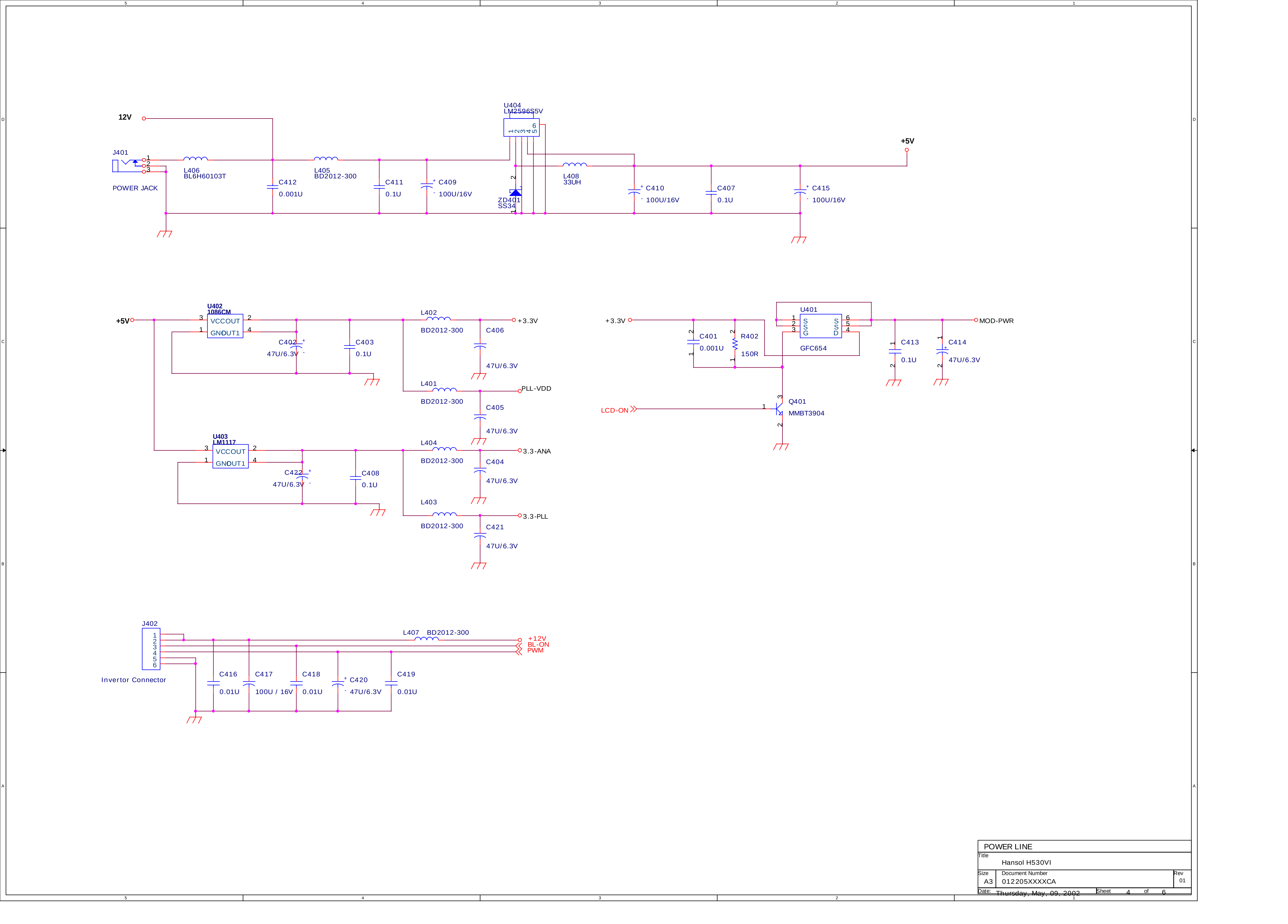

+5VS
J502
DB15HD
(1) RED
(1) GREEN
(1) BLUE
PC-99
(3) SELF-DET
R516
75R
R517
75R
R403
75R
D506
D501
BAV99
D504
BAV99
ZD504
BAV99
D505
BZX84C5V6
BZX84C5V6
D507
BZX84C5V6
D508
BZX84C5V6
ZD502
BZX84C5V6
R509
4.7K
ZD501
BZX84C5V6
R508
4.7K
R507
100R
R505
100R
DDC-SDA
DDC-SCL
R5100R
HSYNC-MCU
R5110R
VSYNC-MCU
Un-Mount
+5V
C501
0.1U
U501
74HCT14
A1
VCC
/Y1
A6
A2
/Y6
/Y2
A5
A3
/Y5
/Y3
A4
GND
/Y4
R504
100R
VSYNC-Scaler
R503
100R
HSYNC-Scaler
+5V
VGA INPUT
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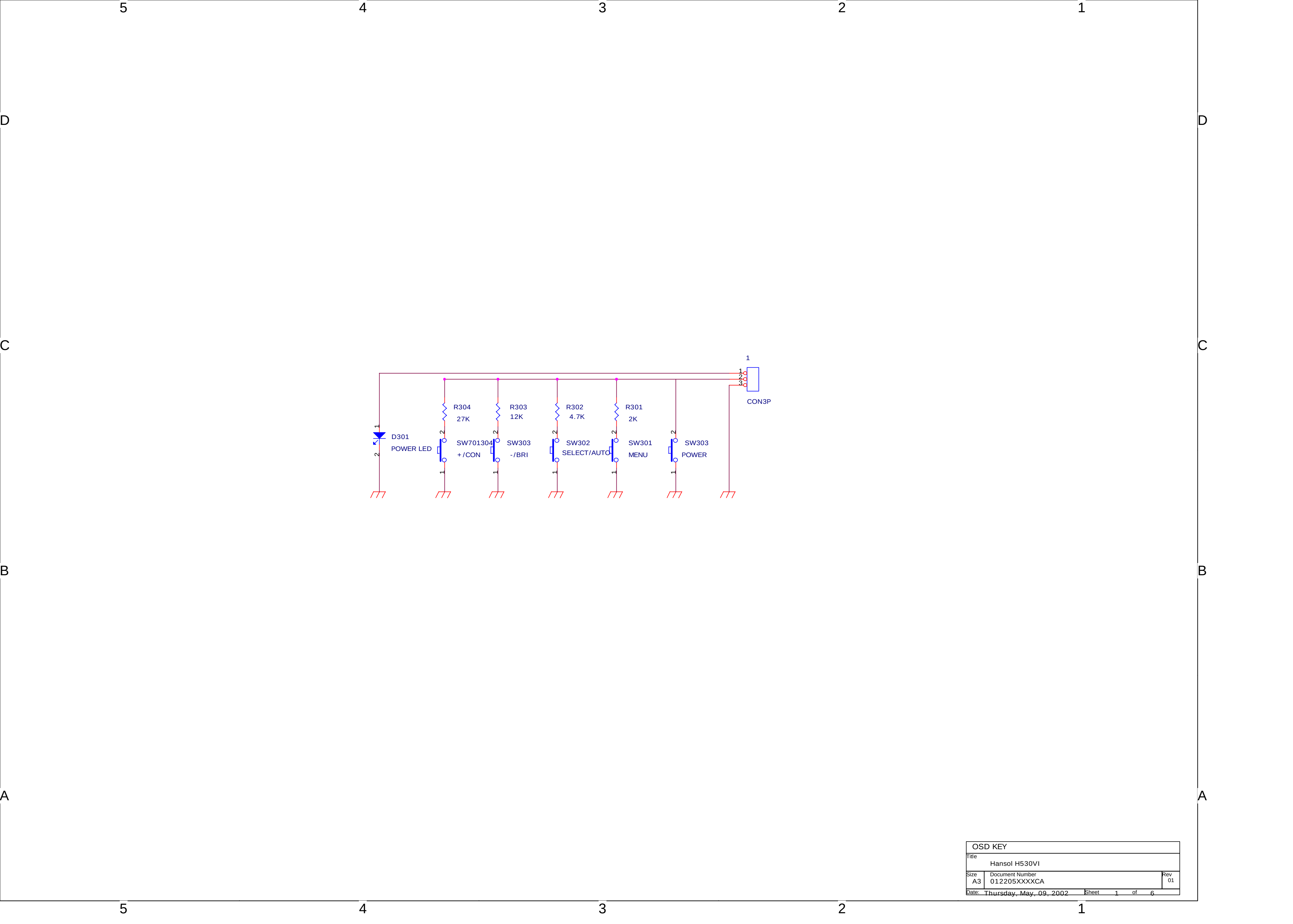
U101
MASCOT V
+3.3V
R112 10K
R113 10K
R114 10K
R115 10K
R116 10K
R117 10K
R118 10K
R119 10k
R111 10K
R121 3.3K
LCD-ON
Un-Mount
R122 100
PWM
R123 100
BL-ON
RESET-MASCOT
SCL
SDA
IRQ
R105 47R
R106 47R
RGB-A[0..23]
AR101 120R
AR102 120R
AR103 120R
AR104 120R
AR105 120R
AR106 120R
RA7
RA6
RA5
RA4
RA3
RA2
BA7
GA6
GA5
GA4
GA3
GA2
BA7
BA6
BA5
BA4
BA3
BA2
VSYNC-Scaler
HSYNC-Scaler
3.3-ANA
PA-BLUE
PA-GREEN
PA-RED
R520 0R
R519 0R
R518 0R
R110 240R
R109 240R
R108 240R
C118 0.1U
C113 0.1U
C110 0.1U
C502 5p
C503 5p
C504 5p
UN-MOUNT
PLL-VDD
3.3-PLL
+3.3V
R120 2.2K
Q101
TL431
C122 0.1U
C130 10u / 16V
GND-PLL
C120 39n
C121 150p
C117 0.01U
C116 4700p
C115 0.01U
C112 4700p
C109 4700p
AR107 120
Un-Mount
R101 22R
DISP-HSYNC
R102 150
SHCLK
Un-Mount
R103 22R
DISP-VSYNC
R104 100
DISP-DE
C101 6P
R107 1M
X101 12MHZ
C107 20p
C106 20p
3.3-ANA
C114 0.1U
C111 0.1U
C119 0.1U
+3.3V
C123 0.1U
C125 0.1U
C126 0.1U
C127 0.1U
C129 0.1U
C128 0.1U
C104 0.1U
C105 0.1U
C108 0.1U
C124 0.1U
C102 0.1U
C103 0.1U
SCALER(MRT MASCOT V)
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Low-Drop Diode(BAT 54)
PC99
D304
+5V
D303
+5VS
C308
220uF/10V
C303
0.1U
VSYNC-MCU
HSYNC-MCU
+5VS
+5V
R323 10K
R322 10K
R319 10K
R317 10K
R352 10K
R318 10K
R332 10K
R333 4.7K
R331 4.7K
Un-Mount
Un-Mount
R336 3.3K
R334 100R
R335 100R
LCD-ON
BLU-ON
PWM
REF 3.3V
C304
C305
100N
47uF/6.3V
R303 4.7K
U302
NT68F63
C302
20P
Y301
12MHZ
C301
20P
RxD
TxD
R310 100
R338 100R
R320 240R
R313 10K
R343 10K
+5V
IRQ
KEY
GND
OSCO
OSCI
R30/RXD
P31/TXD
P34/T0
P35/T1
INTE1
INTE0
ADC1
ADC0
V33
VCC
RSTB
PC0
PC1
SOGI
VSYNCI
HSYNCI
PC3
PWM1
PWM2
NC
NC
PC6
PC7
SSYNCO
HSYNCO
VSYNCO
PD3
PWM7
PD5
PA0
PA7
PA6
PA5
PA4
PA3
PA2
PA1
DSDA
DSCL
ISDA
ISCL
R327 240R
R314 100R
R315 22R
R316 22R
SELF-DET
RESET-MASCOT
HSYNC-Scaler
VSYNC-Scaler
Un-Mount
LED
R302 240R
R304 240R
DSCL
DSDA
R307 0R
R305 0R
R329 47R
R330 47R
SCL
SDA
Deburg-Connector
+5V
R312
330R
D301
BZX84C5V6
D302
BZX84C5V6
J301
R311 100R
LED
KEY
OSD Key Connector
C309
0.1U
C306
0.1U
J302
SCL
SDA
TxD
RxD
MRT DEBUG I/O
+5VS
C307
0.1U
U1
A0
A1
A2
NC
VCC
SCL
SDA
VSS
24LC16B
R308 47R
R306 47R
SCL
SDA
Un-Mount
Un-Mount
MICOM(NOVATEK NT68F63L)
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12V
J401
POWER JACK
L406
BL6H60103T
C412
0.001U
L405
BD2012-300
C411
0.1U
C409
100U/16V
U404
LM2596S5V
ZD401
SS34
L408
33UH
C410
100U/16V
C407
0.1U
C415
100U/16V
+5V
U402
1086CM
VCCOUT
GNDOUT1
C402
47U/6.3V
C403
0.1U
L402
BD2012-300
C406
47U/6.3V
+3.3V
L401
BD2012-300
PLL-VDD
C405
47U/6.3V
U403
LM1117
C422
47U/6.3V
C408
0.1U
L404
BD2012-300
3.3-ANA
C404
47U/6.3V
L403
BD2012-300
3.3-PLL
C421
47U/6.3V
J402
Invertor Connector
L407
BD2012-300
+12V
BL-ON
PWM
C416
0.01U
C417
100U / 16V
C418
0.01U
C420
47U/6.3V
C419
0.01U
+3.3V
C401
0.001U
R402
150R
U401
GFC654
C413
0.1U
C414
47U/6.3V
MOD-PWR
LCD-ON
Q401
MMBT3904
POWER LINE
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PANEL INTERFACE		
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5
4
3
2
1
D
C
B
A
1
1
2
3
CON3P
R304
27K
R303
12K
R302
4.7K
R301
2K
D301
POWER LED
SW701304
+/CON
SW303
-/BRI
SW302
SELECT/AUTO
SW301
MENU
SW303
POWER
OSD KEY
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